



IDS GeoRadar

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11/25/2016

Marlene H. Dortch, Secretary
Federal Communications Commission
445 12th Street, S.W.
Washington, DC 20554

Re: ET Docket No. 15-26, RM-11666, ET Docket No. 11-90, RM-11555, ET Docket No. 10-28, WT Docket No. 11-202, Radar Services in the 76-81 GHz Band. Ex Parte Communication

Dear Ms. Dortch:

I am writing in support of fixed radar operations in the 76-77 GHz band.

IDS GeoRadar began as a division of IDS Ingegneria dei Sistemi in 1980 in Pisa, Italy. It provides products and solutions for geophysical, civil engineering and security applications. Over the years, the company has pioneered breakthrough radar technologies for civil applications. IDS GeoRadar has long been a major player in research into ground penetrating radar (GPR). Building on this success, IDS GeoRadar has become one the leading global provider of GPR products.

2007 saw the launch of the IBIS products, the first commercial ground-based interferometric radar with linear scan capabilities. The interferometric radar products provide a unique solution to the problem of monitoring small movements in ground or structures, allowing remote, long range, continuous real-time measurement of large areas.

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We are developing a radar system that will operate in the 76 to 77 GHz band.
The same system will be used for three different applications:

- underground mine wall stability monitoring
- slope stability monitoring (open pit mine and landslide)
- civil structure (bridge, towers, buildings, etc.) deformation monitoring.

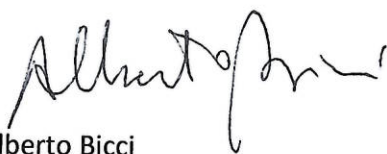
The system will measure submillimeter deformation to give an alert in case of a collapse hazard.

Adaption of the proposed authorization for fixed radar at 76-77 GHz would enable us to market the systems in the United States. Public benefits would include greater safety in the mining industries and at construction sites, and in any situation where structures may be in danger of collapse (following earthquakes, for example).

Other radar provisions in the FCC rules are at unsuitable frequencies or are limited to specific applications that exclude the uses above.

For these reasons we urge the FCC to permit 76-77 GHz fixed radar as proposed in the NPRM.

Respectfully submitted,



Alberto Bicci

IDS GeoRadar President